

SEQUENCE LISTING_58778_000002.txt
SEQUENCE LISTING

<110> Daiichi Suntory Pharma Co.,Ltd.
Kenji KANGAWA

<120> A method for producing a modified peptide

<130> D05F1044

<150> PCT/JP03/04590

<151> 2003-04-10

<160> 39

<210> 1

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<223> Amino acid sequence for human endogenous peptides of growth hormone secretagogue

<400> 1

Gly	Ser	Ser	Phe	Leu	Ser	Pro	Glu	His	Gln	Arg	Val	Gln	Gln	Arg	Lys
1				5					10					15	
Glu	Ser	Lys	Lys	Pro	Pro	Ala	Lys	Leu	Gln	Pro	Arg				
			20					25							

<210> 2

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<223> Amino acid sequence for human endogenous peptides (27 amino acids) of growth hormone secretagogue

<400> 2

Gly	Ser	Ser	Phe	Leu	Ser	Pro	Glu	His	Gln	Arg	Val	Gln	Arg	Lys	Glu
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Ser	Lys	Lys	Pro	Pro	Ala	Lys	Leu	Gln	Pro	Arg					
			20				25								

<210> 3

<211> 28

<212> PRT

<213> Rattus norvegicus

<220>

<223> Amino acid sequence for rat endogenous peptides of growth hormone secretagogue

<400> 3

Gly	Ser	Ser	Phe	Leu	Ser	Pro	Glu	His	Gln	Lys	Ala	Gln	Gln	Arg	Lys
1				5					10					15	
Glu	Ser	Lys	Lys	Pro	Pro	Ala	Lys	Leu	Gln	Pro	Arg				
			20					25							

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<211> 27

<212> PRT

<213> Rattus norvegicus

<220>

<223> Amino acid sequence for rat endogenous peptides (27 amino acids) of growth hormone secretagogue

<400> 4

Gly	Ser	Ser	Phe	Leu	Ser	Pro	Glu	His	Gln	Lys	Ala	Gln	Arg	Lys	Glu
1				5					10					15	

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Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 5

<211> 28

<212> PRT

<213> Mus musculus

<220>

<223> Amino acid sequence for mouse endogenous peptides of growth hormone secretagogue

<400> 5

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Ala Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 6

<211> 28

<212> PRT

<213> Sus scrofa (pig)

<220>

<223> Amino acid sequence for porcine endogenous peptides of growth hormone secretagogue

<400> 6

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Val Gln Gln Arg Lys
 1 5 10 15

Glu Ser Lys Lys Pro Ala Ala Lys Leu Lys Pro Arg
 20 25

<210> 7

<211> 27

<212> PRT

<213> Bos taurus

<220>

<223> Amino acid sequence for bovine endogenous peptides (27 amino acids) of growth hormone secretagogue

<400> 7

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Leu Gln Arg Lys Glu
 1 5 10 15

Ala Lys Lys Pro Ser Gly Arg Leu Lys Pro Arg
 20 25

<210> 8

<211> 27

<212> PRT

<213> Ovis aries

<220>

<223> Amino acid sequence for ovine endogenous peptides (27 amino acids) of growth hormone secretagogue

<400> 8

Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Leu Gln Arg Lys Glu
 1 5 10 15

Pro Lys Lys Pro Ser Gly Arg Leu Lys Pro Arg
 20 25

<210> 9

<211> 28

<212> PRT

<213> Canis familiaris

<220>

<223> Amino acid sequence for dog endogenous peptides of growth hormone secretagogue

<400> 9

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Gly Ser Ser Phe Leu Ser Pro Glu His Gln Lys Leu Gln Gln Arg Lys
 1 5 10 15
 Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg
 20 25

<210> 10
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 <212> PRT
 <213> Anguilla japonica
 <220>
 <221> AMIDATION
 <222> 21
 <223> Amino acid sequence for eel endogenous peptides of growth hormone
 secretagogue
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Gly Ser Ser Phe Leu Ser Pro Ser Gln Arg Pro Gln Gly Lys Asp Lys
 1 5 10 15
 Lys Pro Pro Arg Val
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<210> 11
 <211> 23
 <212> PRT
 <213> Oncorhynchus mykiss
 <220>
 <221> AMIDATION
 <222> 23
 <223> Amino acid sequence for rainbow trout endogenous peptides (23 amino
 acids) of growth hormone secretagogue
 <400> 11

Gly Ser Ser Phe Leu Ser Pro Ser Gln Lys Pro Gln Val Arg Gln Gly
 1 5 10 15
 Lys Gly Lys Pro Pro Arg Val
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<210> 12
 <211> 20
 <212> PRT
 <213> Oncorhynchus mykiss
 <220>
 <221> AMIDATION
 <222> 20
 <223> Amino acid sequence for rainbow trout endogenous peptides (20 amino
 acids) of growth hormone secretagogue
 <400> 12

Gly Ser Ser Phe Leu Ser Pro Ser Gln Lys Pro Gln Gly Lys Gly Lys
 1 5 10 15
 Pro Pro Arg Val
 20

<210> 13
 <211> 24
 <212> PRT
 <213> Gallus domesticus
 <220>
 <223> Amino acid sequence for chicken endogenous peptides of growth
 hormone secretagogue
 <400> 13

Gly Ser Ser Phe Leu Ser Pro Thr Tyr Lys Asn Ile Gln Gln Gln Lys
 1 5 10 15
 Gly Thr Arg Lys Pro Thr Ala Arg
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<210> 14
 <211> 24
 <212> PRT
 <213> Gallus domesticus
 <220>
 <223> Amino acid sequence for chicken endogenous peptides of growth hormone secretagogue
 <400> 14
 Gly Ser Ser Phe Leu Ser Pro Thr Tyr Lys Asn Ile Gln Gln Gln Lys
 1 5 10 15
 Asp Thr Arg Lys Pro Thr Ala Arg
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<210> 15
 <211> 26
 <212> PRT
 <213> Gallus domesticus
 <220>
 <223> Amino acid sequence for chicken endogenous peptides of growth hormone secretagogue
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 Gly Ser Ser Phe Leu Ser Pro Thr Tyr Lys Asn Ile Gln Gln Gln Lys
 1 5 10 15
 Asp Thr Arg Lys Pro Thr Ala Arg Leu His
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<210> 16
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 <213> Rana cafesbeiana
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 <223> Amino acid sequence for frog endogenous peptides of growth hormone secretagogue
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 1 5 10 15
 Gln Ser Gln Asn Lys Leu Arg His Gly Asn Met
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<210> 17
 <211> 28
 <212> PRT
 <213> Rana cafesbeiana
 <220>
 <223> Amino acid sequence for frog endogenous peptides of growth hormone secretagogue
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 Gly Leu Thr Phe Leu Ser Pro Ala Asp Met Gln Lys Ile Ala Glu Arg
 1 5 10 15
 Gln Ser Gln Asn Lys Leu Arg His Gly Asn Met Asn
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<210> 18
 <211> 20
 <212> PRT
 <213> Tilapia nilotica
 <220>
 <221> AMIDATION
 <222> 20
 <223> Amino acid sequence for tilapia endogenous peptides of growth hormone secretagogue
 <400> 18
 Gly Ser Ser Phe Leu Ser Pro Ser Gln Lys Pro Gln Asn Lys Val Lys

1 5
Ser Ser Arg Ile
20

<210> 19
<211> 22
<212> PRT
<213> Silurus asotus
<220>
<221> AMIDATION
<222> 22
<223> Amino acid sequence for catfish endogenous peptides of growth hormone
secretagogue
<400> 19
Gly Ser Ser Phe Leu Ser Pro Thr Gln Lys Pro Gln Asn Arg Gly Asp
1 5 10 15
Arg Lys Pro Pro Arg Val
20

<210> 20
<211> 23
<212> PRT
<213> Silurus asotus
<220>
<223> Amino acid sequence for catfish endogenous peptides of growth hormone
secretagogue
<400> 20
Gly Ser Ser Phe Leu Ser Pro Thr Gln Lys Pro Gln Asn Arg Gly Asp
1 5 10 15
Arg Lys Pro Pro Arg Val Gly
20

<210> 21
<211> 28
<212> PRT
<213> Equus caballus
<220>
<223> Amino acid sequence for equine endogenous peptides of growth hormone
secretagogue
<400> 21
Gly Ser Ser Phe Leu Ser Pro Glu His His Lys Val Gln His Arg Lys
1 5 10 15
Glu Ser Lys Lys Pro Pro Ala Lys Leu Lys Pro Arg
20 25

<210> 22
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Amino acid sequence adjacent to a site cleaved by enterokinase
<400> 22
Asp Asp Asp Lys
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<210> 23
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Amino acid sequence adjacent to a site cleaved by blood coagulation
Factor Xa
<400> 23

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Ile Glu Gly Arg
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<210> 24
<211> 7
<212> PRT
<213> Artificial sequence
<220>
<223> Amino acid sequence containing a site cleaved by renin
<400> 24
Pro Phe His Leu Leu Val Tyr
1 5

<210> 25
<211> 6
<212> PRT
<213> Artificial sequence
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<223> Synthetic construct
<400> 25
Val Asp Asp Asp Asp Lys
1 5

<210> 26
<211> 36
<212> PRT
<213> Artificial sequence
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<223> linker sequence in the fusion protein p117 8-28oPR
<400> 26
Glu Pro His His His His Pro Gly Gly Arg Gln Met His Gly Tyr Asp
1 5 10 15
Ala Asp Val Arg Leu Tyr Arg Arg His His Gly Ser Gly Ser Pro Ser
20 25 30
Arg His Pro Arg
35

<210> 27
<211> 36
<212> PRT
<213> Artificial sequence
<220>
<223> linker sequence in the fusion protein p117 8-28oRR
<400> 27
Glu Pro His His His His Pro Gly Gly Arg Gln Met His Gly Tyr Asp
1 5 10 15
Ala Asp Val Arg Leu Tyr Arg Arg His His Gly Ser Gly Ser Pro Ser
20 25 30
Arg His Arg Arg
35

<210> 28
<211> 36
<212> DNA
<213> Artificial sequence
<220>
<223> primer ORI-RR
<400> 28
ggttccggat ccccttctcg acatcgccgg gaacac 36

<210> 29
<211> 25
<212> DNA

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<213> Artificial sequence

<220>

<223> primer SAL*R

<400> 29

ataagtcgac ttatcgtggc tgcag

25

<210> 30

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic construct

<400> 30

Arg His His Gly Ser Gly Ser Pro Ser Arg His Arg Arg
1 5 10

<210> 31

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic construct

<400> 31

Arg His His Gly Ser Gly Ser Pro Ser Arg His Pro Arg
1 5 10

<210> 32

<211> 13

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic construct

<400> 32

Arg His His Gly Ser Gly Ser Pro Ser Arg His Lys Arg
1 5 10

<210> 33

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic construct

<400> 33

Gly Ser Ser Phe Leu Ser Pro
1 5

<210> 34

<211> 4

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic construct

<400> 34

Phe Leu Ser Pro
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<210> 35

<211> 14

<212> PRT

<213> Artificial sequence

<220>

<223> linker sequence

<400> 35

SEQUENCE LISTING_58778_000002.txt

Arg Arg His His Gly Ser Gly Ser Pro Ser Arg His Pro Arg
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<210> 36
 <211> 27
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> h8-28f1 - synthetic oligo-DNA nucleotide sequence
 <400> 36
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<210> 37
 <211> 33
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> h8-28r1
 <400> 37
 acgctgctgg acgcgctggt gttcccgcg gga 33

<210> 38
 <211> 49
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> GR2f
 <400> 38
 cagcgtaagg aatccaagaa gccaccagct aaactgcagc cacgatgag 49

<210> 39
 <211> 44
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> GR2r
 <400> 39
 tcgactcatc gtggctgcag tttagctggc ttcttgatt cctt 44